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| Mr. Michael T. Davis  WLPCS Calculus | | Section 5.1 HW Problems Due March 12  March 8, 2018 | |
| Name: | |

**Directions for #’s 1-4:** For each function given, use the graph of  to determine:

1. The x-value for which any extreme value (absolute or local) exists,
2. The absolute (global) extreme values (if any exist),
3. The local (relative) extreme values,
4. A clear and detailed justification of your answer.
5.  on 
6.  on 
7.  on 
8.  on 

**Directions for #’s 5-9:** For each function given, use Calculus to determine:

1. The first derivative function,
2. The critical points of the derivative function,
3. A sign analysis of the first derivative function,
4. The x-value for which any extreme value (absolute or local) exists,
5. The absolute (global) extreme values (if any exist),
6. The local (relative) extreme values,
7. A clear and detailed justification of your answer.
8. 
9. 
10. 
11. 